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ANNUAL REPORT

OF THE

CONSUMPTIVES' HOSPITAL DEPARTMENT

FOR THE YEAR ENDING JANUARY 31, 1921.

Boston, February 1, 1921.

Hon. Andrew J. Peters,
Mayor of the City of Boston:

Dear Sir,— The report of the Consumptives' Hospital Department for the year ending January 31, 1921, is respectfully submitted herewith.

The Board of Trustees met on May 13, 1920, and organized for the year. John F. O'Brien was elected chairman and James J. Minot secretary.

The appropriation for the year 1920–21 was $371,899.04. The expenses for the year were $351,240.63, leaving a balance of $20,658.41, which was turned back to the city treasury.

The receipts for the year were $93,327.93, which are not credited to the hospital but paid into the city treasury. This makes the net cost of the hospital to the city $257,912.70.

Below is given a table showing the cost, the receipts and the net cost, together with the figures for the principal activities of the hospital for a number of years.

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	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Total cost	$200,128 65	$200,804 48	$212,950 03	$212,340 96	$222,717 69	$260,737 70	$281,353 88	$291,755 64	$351,240 63
Paid into city treasury from subsidy, etc.,	42,010 22	54,268 06	62,264 42	60,249 31	77,874 79	81,601 38	87,098 69	92,159 66	93,327 93
Net cost to city	$158,118 43	$146,536 42	$150,685 61	$152,091 65	$144,842 90	$179,136 32	$194,255 19	$199,595 98	$257,912 70

WARDS AT MATTAPAN.

The following statistics are calculated from December 1 to December 1, except statistics for salaries, which are from January 1 to January 1.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Cost at Mattapan, exclusive of salaries	$117,065 77	$110,936 22	$116,600 99	$114,313 51	$112,471 61	$136,547 48	$148,609 73	$139,109 83	$176,086 84
Salaries at Mattapan	$48,168 29	$54,707 32	$60,733 64	$61,584 37	$73,130 57	$81,824 66	$84,314 55	$97,343 41	$112,918 28
Number of patient days	68,421	74,120	88,189	95,555	129,164	140,031	131,296	132,630	125,277
Cost per patient day	$1 49	$1 53	$1 53	$1 31	$1 24	$1 39	$1 68	$1 74	$2 24
Number of patient and officer days,	107,731	112,868	123,541	131,644	169,388	186,242	177,294	179,808	172,878
Per capita per diem cost of raw food,	$0 31	$0 35	$0 34	$0 33	$0 35	$0 38	$0 44	$0 48	$0 53

OUT-PATIENT DEPARTMENT.

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Cost exclusive of salaries but including rent	$6,794 09	$6,563 11	$5,574 79	$5,898 08	$6,177 89	$7,003 05	$7,477 86	$7,316 95	$8,044 11
Salaries	28,100 50	28,597 83	30,040 63	30,545 00	30,937 62	35,362 51	40,951 74	47,985 45	54,191 40

The following statistics are calculated from December 1 to December 1.

	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Number of patient-visits to out-patient department December 1 to December 1	7,377	8,504	8,750	9,975	9,868	12,381	10,070	10,613	9,642	8,229	9,065
Cost of each patient-visit to out-patient department	$0 96	$0 85	$0 85	$0 76	$0 77	$0 63	$0 79	$0 85	$1 06	$1 42	$1 43
Number of nurse-visits to patients' homes December 1 to December 1	39,220	48,179	51,873	54,778	51,320	53,605	56,079	57,674	53,448	59,727	60,310
Cost of each nurse-visit to patients' homes	$0 90	$0 60	$0 57	$0 55	$0 59	$0 58	$0 57	$0 62	$0 77	$0 78	$0 87
Number of cases carried by nurses on districts	4,259	4,188	5,017	6,170	6,067	6,378	6,743	7,275	6,904	6,554	6,142
Number in bed at time of nurse's first visit *	470	425	526	588	590	505	800	852	795	706	612

* These patients have been referred to the nurses by outside physicians and others. Patients who have been to the out-patient department are not included here.

From the above tables it appears that the cost exclusive of salaries for the year 1920 was $37,704.17 more than for the year 1919. The chief reasons for this increase were as follows: Food cost in 1920, $4,261.10 more than in 1919; forage and animal, $1,135.70; fuel, $16,514.67; furniture and fittings, $2,990.27; medical equipment, $1,103.51; repairs, etc., $5,680.14; industries, $1,996.83 (a new undertaking).

Under chapter 637, Acts of 1912, the state allows a subsidy of $5 a week for those patients who have "tubercle bacilli in their sputum."

Under chapter 238, Acts of 1920, subsidy is allowed for patients who do not show bacilli in their sputum but who in the opinion of the hospital staff and of the State Department of Health have "consumption." Up to December 1, 1920, subsidy has been asked for 60 such patients. It was allowed for 51 and refused for 9.

No subsidy is allowed for patients who are employed and paid by the hospital, nor for those whose board at the hospital is paid by the state. When the board is paid for by another city or town, that city or town can apply for subsidy; Boston cannot.

The amount allowed for subsidy appearing in annual reports of the hospital is for the preceding year and not for the year of the report.

The length of stay of the patients in the hospital, at Mattapan, for successive years is shown in the table below. Patients who had entered the hospital less than three weeks before the day in January this census was taken were not counted.

LENGTH OF TIME IN HOSPITAL.	7 to 8 Years.	6 to 7 Years.	5 to 6 Years.	4 to 5 Years.	3 to 4 Years.	2 to 3 Years.	1 to 2 Years.	6 Months to 1 Year.	Less than 6 Months.
January, 1915	.....	.....	2	1	8	15	51	54	
January, 1916	.....	.....	2	7	10	28	49	38	121
January, 1917	.....	1	5	7	13	28	42	72	194
January, 1918	1	4	2	4	18	11	42	87	160
January, 1919	1	.....	4	12	6	26	63	57	160
January, 1920	.....	2	11	3	19	37	70	56	147
January, 1921	1	9	3	15	25	34	63	59	130

The following table shows the admissions and discharges for several years at Mattapan:

	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
In hospital February 1,	183	185	198	213	262	291	403	386	369	377	352
Admitted.....	587	614	515	580	517	1,020	931	744	685	497	
Discharged alive.....	345	336	270	291	259	528	544	403	351	279	
Discharged dead.....	240	263	230	240	230	380	404	358	326	243	

The increased number of admissions to the hospital in 1916 was due to the fact that new wards had been completed. There were less admissions in 1920 than in any year. The decrease in admissions for the last year and more has been chiefly among the "cottage cases." These are the patients well enough to be up all day.

There are more nonpulmonary cases of tuberculosis in the hospital than ever before. Because the hospital beds were not needed for pulmonary cases and had not been filled for some years the trustees have admitted chronic "surgical" tuberculosis cases. There was practically no place where these cases could go and be cared for.

In the year 1920 there were 821 deaths from pulmonary tuberculosis in Boston. In the same year there were 243 deaths at the hospital at Mattapan and 172 deaths at home, a total of 415 among the patients under the care of the hospital. Fifty-one per cent of all the deaths in Boston during this year occurred in patients under the care of the hospital. In the year 1919, 62 per cent occurred under the care of the hospital. (The per cent 51½ printed in the report for 1919 was wrong.)

The table on page 6 gives the total number of new and old cases treated at the day clinics of the outpatient department as well as the percentage of positive cases by years since the beginning.

YEAR.	Number New Cases.	Number Old Cases.	Totals.	Percentage Positive Cases (New).
September 11, 1907, to February 1, 1908.	1,122	912	2,034	32.79
February 1, 1908, to February 1, 1909...	2,433	7,098	9,531	31.69
February 1, 1909, to February 1, 1910...	2,656	8,074	10,730	42.36
February 1, 1910, to February 1, 1911...	2,462	4,915	7,377	33.75
February 1, 1911, to February 1, 1912...	2,033	6,471	8,504	36.94
February 1, 1912, to February 1, 1913...	1,971	6,735	8,706	49.87
February 1, 1913, to February 1, 1914...	2,455	7,980	10,435	44.28
February 1, 1914, to February 1, 1915...	2,227	7,971	10,198	44.90
February 1, 1915, to February 1, 1916...	2,679	8,707	11,386	39.42
February 1, 1916, to February 1, 1917...	2,247	7,823	10,070	39.03
February 1, 1917, to February 1, 1918...	2,288	7,541	9,829	35.00
February 1, 1918, to February 1, 1919...	2,125	6,860	8,985	32.80
February 1, 1919, to February 1, 1920...	1,971	5,689	7,660	37.03
February 1, 1920, to January 31, 1921...	1,590	6,889	8,479	33.84

In addition to the day clinics there is once a week an evening clinic. At the evening clinics there are usually some 70 new and 500 old cases treated (this year 69 new and 517 old) in a year.

This table, as well as the one given above for the ward patients at Mattapan, shows a marked decrease in new cases of recent years. Similar decreases have occurred in other places. The explanation for them is not known. Various reasons have been given, none of which seem to be entirely satisfactory.

More has been done this year than before in the way of entertainment for the patients. The trustees wish to thank those who have given these entertainments and also those who have given books for their kindness and their thoughtfulness for the consumptives, confined for months and even years to the hospital grounds.

The entertainments for patients are held in the "day camp" dining room. This room is unfinished on the inside. It is used as the dining room for the cottage patients and for church services as well as entertainments. The trustees have asked for money to properly finish this room.

The occupational therapy department has passed the experimental stage. Many more patients are occupied with this work than last year. They make, under the instruction and supervision of teachers, a great variety of things, which are sold, the patients receiving pay for their work. It has added very much to the happiness and contentment of the patients and given them interesting occupation which takes their minds off themselves. This work is done by those confined entirely to bed, often not able to even sit up, as well as by those who are the least sick. A great variety of work is done and well done, making baskets, caning chairs, making rugs on hand looms or hooked rugs, weaving many and beautiful scarfs, belts, etc., making jewelry, much beadwork, carving, toy making, lace making, embroidery, much knitting by men as well as women, dressmaking and many other things. The money received by the patients helps to support their families and to provide their own clothes.

The present workshop is in a basement. The room is small, badly lighted and heated and ill-suited for the purpose. The trustees have asked for the money necessary to convert an unused "bridge" between Wards A and B into a large and proper workshop and where the sun shines all day.

The trustees having concluded that the cost of keeping cows and producing a part of the milk used at the hospital was greater than the cost of purchasing the same amount of milk, have sold the cows. This will increase the amount asked for in the budget under D-2, food and ice, correspondingly. The total amount for the cost of food to the hospital, however, should be less. The cow barn was already old when the property was bought and far from a proper modern cow tieup.

The amount asked for in the budget under D-3, fuel, is more because the supply department feels that there should always be at the hospital a larger surplus supply on hand than has been kept there before. During the winter when the snow is heavy it has been very difficult to get coal delivered. More than once the supply has been sufficient for a few hours only.

The high tension electric wires have been strung on poles. The poles and wire were getting old; some had

already fallen. Fortunately no one was injured. The trustees have made a contract to bury all these wires. When this is done, all the current used will pass through one transformer and one meter instead of through several, as now is the case.

Only a very small part of the interior walls of any of the hospital buildings has been painted. The trustees have in previous years asked for money to do this painting with and ask it again this year.

OUT–PATIENT DEPARTMENT.

The out-patient department is the center of a most important part of the hospital's work. The work done at this clinic and by the nurses at the homes, who spread the gospel of right living, knowledge in regard to contagion, proper housing, food and cooking in the districts of the less educated, does more to eradicate tuberculosis than anything else. In January, 1920, Boston had 7 more clinic hours a week per 100,000 population than Philadelphia, twice as many as New York or Cincinnati and still more than any other large city had. (United States Census Bureau report.)

A new out-patient building is absolutely necessary. Not only is the house now used utterly too small and badly arranged, but it is to be taken down and new commercial buildings are to be erected.

The budget for 1921–22 has been submitted already.

Attention is called to the reports made to the trustees by the chief of staff and by the superintendent and to the financial reports which follow these reports.

During the year the following changes have occurred:

July 15. Dr. Samuel Cline was appointed second laryngological assistant.

November 1. The position of assistant physician for diseases of children was made and Dr. Eli Friedman was appointed to this position for six months.

December 1. The position of visiting dental surgeon was made and Dr. Frederick A. Keyes was appointed to this position.

Respectfully submitted,

JOHN F. O'BRIEN, *Chairman*,
JAMES J. MINOT, *Secretary*,
ISABEL F. HYAMS,
JOHN J. BARRY,
PATRICK A. KEARNS,
PETER J. DONAHUE,
SUSAN C. LYMAN,
Trustees Boston Consumptives' Hospital.

SUMMARY.

HOSPITAL AT MATTAPAN.

	1920.	1919.	1918.	1917.
Number of beds	422	422	422	408
Average daily number of patients	340	366	362	381
Total number admitted (adult, 458, child, 39, in 1920)	497	685	744	931
Number admitted from Out-Patient Department	409	572	648	807
Total number discharged (adult, 475, child, 47, in 1920)	522	677	761	948
Discharged "arrested" (adult, 7, child, 15, in 1920	22	16	38	58
Discharged "improved" (adult, 159, child, 12, in 1920)	171	230	227	333
Discharged "unimproved" (adult, 65, child, 6, in 1920)	71	96	123	133
Nonpulmonary or nontubercular (adult, 12, child, 3, in 1920)	15	9	15	20
Discharged "dead" (adult, 232, child, 11, in 1920)	243	326	358	404
Discharged "alive" (adult, 243, child, 36, in 1920)	279	351	388	544
Discharged "by advice"	115	76	112	220
Discharged "against advice"	91	104	124	160
Discharged "eloped"	73	171	152	164
Total cost, February 1 to February 1, including capital expenses account	$289,005.12	$236,453.24	$232,924.28	$218,372.14
Paid into city treasury (subsidy from state, patients' board from cities and towns, etc.)	$92,945.68	$91,739.61	$86,720.59	$81,236.23
Net cost to the city of hospital at Mattapan	$196,059.44	$144,713.63	$146,203.69	$137,135.91
Cost per patient per day, excluding capital expense account	$2.24	$1.74	$1.68	$1.39
Cost of raw food per patient and officer day	$0.53	$0.48	$0.44	$0.38

OUT-PATIENT DEPARTMENT.

	1920.	1919.	1918.	1917.
Total number of cases, old and new	8,479	7,660	8,985	9,829
Number of new cases	1,590	1,971	2,125	2,288
Percentage of new cases that were positive	33.84	37.03	32.80	35.00
Total number of nurses' visits to homes	60,628	59,729	53,448	57,674
Number referred to State Hospitals for Consumptives	434	519	472	539
Number admitted to State Hospitals for Consumptives	217	408	288	235
Number referred to other hospitals	63	36	64	104
Number admitted to other hospitals	51	59	47	76
Number of deaths of patients in districts under nurses' care	172	276	245	204
Total cost, February 1 to February 1	$62,262.83	$55,302.40	$48,429.60	$42,365.56
Paid into city treasury (sale of medicine)	$382.05	$420.05	$378.10	$365.15
Net cost to the city of Out-Patient Department,	$61,880.78	$54,882.35	$48,051.50	$42,000.41
Cost per visit of patient to clinic	$1.31	$1.42	$1.06	$0.85
Cost per visit of nurse to a home	$0.78	$0.78	$0.77	$0.62

Total deaths in Boston from pulmonary tuberculosis	821	966	1,186	1,147
Of which occurred under the care of the hospital	415	603	602	608

REPORT OF THE MEDICAL STAFF.

BOSTON, January 31, 1921.

To the Trustees of the Boston Consumptives' Hospital:

The report of the medical staff of the Boston Consumptives' Hospital for the year ending January 31, 1921, is herewith submitted.

A. HOSPITAL, MATTAPAN.

As anticipated in last year's report, the shortage of assistant resident physicians has been to a considerable degree during the past year overcome. While there has not at all times been a full quota of residents, there has always been a sufficient number to properly carry on the medical work.

There have been no resignations from the visiting staff during the past year. The following new appointments have been made: On July 15 Dr. Samuel Cline was appointed assistant visiting laryngologist; on November 1 Dr. Eli Friedman was appointed assistant physician for diseases of children, and on December 1 Dr. Frederick A. Keyes was appointed visiting dental surgeon.

Doctor Childs has continued to direct the work of the clinical laboratory, and in spite of the fact that she has not had adequate assistants she has constantly maintained the usual high standard of the laboratory. The records of the laboratory for the year show, roughly, 2,800 sputum examinations and 728 miscellaneous examinations.

The X-ray department has shown a very gratifying growth during the year, the total number of house cases examined being 511. Besides these there were examined in this department 288 cases from the out-patient department. For the past six months Doctor O'Brien has been assisted by Doctor Ames, one of our former resident physicians. The importance of this work and its rapid growth make it evident that in the near future it will be necessary to employ a regular technician.

In last year's report considerable attention was given

to the consideration of the industrial work for patients which was organized and is still being conducted by Miss Emmons. There has been a continued demonstration during the past twelve months of the importance of this work to the patients. The most important consideration is perhaps the fact that there is a distinct change in the attitude of the patients in general toward this industrial work. It is now possible to interest a considerably larger proportion of the patients than was formerly the case. Were the facilities for this work to be enlarged it seems evident that a considerably larger number of patients would be ready to accept its advantages. In order to accomplish this it will be necessary to give Miss Emmons additional assistants and to enlarge the space where the work is done. At present Miss Emmons has only one assistant for three days each week and one helper from among the patients. In all, 110 different patients have been enrolled in this work during the year.

The regular instruction of students from the Harvard and Tufts Medical Schools has been continued as usual and is, we believe, a very strong asset for the hospital. In addition to the teaching previously done, Doctor Friedman is now conducting a course for graduate students from the Harvard Medical School which meets at the hospital and in the children's wards once each week.

A very important step has been taken this year in the organization of a definite dental department in the hospital at Mattapan. Early in June, 1920, Doctor Keyes was given a temporary appointment of six months as dental surgeon in order that he might make a careful survey of the needs for dental work at Mattapan. On July 28, 1920, Doctor Keyes made a most important report on the conditions found among a representative group of patients examined. The following table gives a summary of his findings:

Total number examined (adults and children)	281
Number of cases of pyorrhœa	97
Number of cases with roots needing extraction	74
Number of cases in need of cleaning	190
Number of edentulous cases	14
Number of cases needing filling	85
Number of cases of gingivitis	33
Number of cases of acute abscess	7

Many patients in need of plates.

In explanation of these figures Doctor Keyes says, "the ninety-seven cases of pyorrhœa are really advanced cases, with loose teeth covered with salivary calculus, with gums red and turgid, and pus oozing from the alveolar sockets, and the breath in most cases very foul." He further states that the majority of the cases in the group of gingivitis are in reality cases of incipient pyorrhœa. "The mouths in the case of the group of seventy-four patients noted as needing extraction are in very bad condition. These patients have from one to twenty badly broken-down teeth with dirty roots, many with acute or chronic abscesses. At least 75 per cent of the cases noted to have cavities needing filling were among the children. The edentulous patients are those who have neither teeth nor plates." Doctor Keyes particularly calls attention in the case of the adults to the almost universal evidence of lack of mouth hygiene. In spite of the abundant evidence of the need of dental care among the children, Doctor Keyes takes occasion to compliment the department on the excellent care which has been given the teeth among the children as evidences of careful brushing which has been enforced.

Regarding the work accomplished since December 1 Doctor Keyes reports as follows:

Since beginning the actual work in the wards I have come to realize that the previous report underestimated the real conditions existing. A great amount of emergency work has been done. In fact, we have been forced, for the present, to limit the scope of dental work to treatment of acute abscesses, pulpitis, pyorrhœa, etc. Some bed cases have been treated and even extractions successfully done. The patients appear very grateful.

The following represents work done during December, 1920, and January, 1921:

Total number of patients examined	281
Total number of teeth extracted	154
Total number of novocaine anæsthesia (local)	68
Total number of ethylchloride anæsthesia (general)	17
Total number of sequestra (necrosis)	2
Total number of acute alveolar abscesses opened	8
Total number of cheek abscesses opened extra-orally	2
Total number of post extraction treatments	122

It is planned, wherever possible, to examine all cases upon entrance to the hospital so that dental work may be done at once, if this is practicable.

A system of follow-up work to note general improvement in patients is planned, and it is hoped in the near future that material of scientific interest may be available.

Pavilion Wards for Adults.

The total number of patients remaining in the pavilion wards on February 1, 1920, was 201, comprising 148 males and 53 females. The number of patients remaining on February 1, 1921, was 142 males and 59 females, or a total of 201. During the year 522 patients, comprising 357 males and 165 females, were admitted, and a total of 522, comprising 363 males and 159 females, were discharged. Thus the total number of patients treated in these wards during the year was 723, as compared with 915, 989 and 1,184, respectively, for the previous three years. It was suggested in last year's report that this falling off in the total number of cases treated in the wards year by year was probably in large part due to the fact that during the war the patients found it an easy matter to obtain lucrative employment. The continued decrease during the past year, that is, since the termination of the war, would seem to indicate that this is not the main factor. Comparative figures given below as well as the experience of the out-patient department and the records of the Boston Health Department seem rather to point to the probability that tuberculosis is slowly waning in the community. Similar conclusions have been reached by investigators in other communities and it has been repeatedly claimed of late years by various authorities that the anti-tuberculosis work of the past twenty years is now bearing fruit.

Table of diagnosis of all cases at the time of admission treated during the year, arranged according to sex:

	Males.	Females.	Totals.
A. Stage I	10	6	16
B. Stage II	25	16	41
C. Stage III	301	136	437
D. Tuberculosis, nonpulmonary	20	7	27
E. Healed tuberculosis	1	.....	1
Totals	357	165	522

The main fact of importance to note in this table is the further increase in the percentage of advanced cases (84 per cent) as contrasted with previous years.

The following table shows the source of the 522 cases admitted during the year:

	Males.	Females.	Totals.
A. Out-patient department	251	131	382
B. Cottage wards	44	15	59
C. Other institutions, etc	41	12	53
D. Outside physicians	18	6	24
E. Born at Boston Consumptives' Hospital	3	.....	3
F. Children's ward	.....	1	1
Totals	357	165	522

The figures given in the above tables correspond very closely with those for the past few years.

Table showing the disposition of all discharged cases:

	Males.	Females.	Totals.
A. Discharged dead	150	82	232
B. Discharged to home	95	48	143
C. Transferred to cottage wards	97	23	120
D. Transferred to state hospitals	5	2	7
E. Transferred to miscellaneous institutions	13	3	16
F. Transferred to children's ward	3	1	4
Totals	363	159	522

The following table gives the average length of stay of all discharged cases from 1910 to 1921:

	Year 1910–11. (Days.)	Year 1911–12 (Days.)	Year 1912–13. (Days.)	Year 1913–14. (Days.)	Year 1914–15. (Days.)	Year 1915–16. (Days.)	Year 1916–17. (Days.)	Year 1917–18. (Days.)	Year 1918–19. (Days.)	Year 1919–20. (Days.)	Year 1920–21. (Days.)
All discharged cases	46	40	82	85	96	122	109	111	130	110	126
Discharged dead	45	36	85	87	88	133	118	135	128	137	174
Discharged at home	53	38	93	87	98	114	70	164	163	84	106
Discharged to other institutions	39	33	63	80	56	27	50	31	94	108	64

The condition at time of discharge is given in the following table:

	Males.	Females.	Totals.
Arrested	2	1	3
Improved	165	44	209
Unimproved	46	32	78
Dead	150	82	232
Totals	363	159	522

Cottage Wards.

A total of 237 patients, including 51 women and 186 men, were treated in the cottage wards during the year. The figures with reference to admission and discharge are given in the following table:

	Males.	Females.	Totals.
Number of patients February 1, 1920	89	28	117
Number of patients admitted during the year	97	23	120
Number of patients discharged during the year	109	28	137
Number of patients remaining January 31, 1921	77	23	100

The diagnosis at entrance of all cases admitted to the cottage wards is given in the following table:

	Males.	Females.	Totals.
Stage I	3	3	6
Stage II	10	3	13
Stage III	84	15	99
Nontuberculous		2	2
Totals	97	23	120

The only thing noteworthy in this table is the evidence, when the figures are compared with those of previous years, that a somewhat larger percentage of advanced cases are being treated here. The percentage of third-stage cases is 83 per cent as compared with 73 and 74 per cent, respectively, for the previous two years.

The disposition of all discharged cases is given in the following table:

	Males.	Females.	Totals.
Home	61	13	74
Pavilion wards	44	15	59
Other institutions	4	.....	4
Totals	109	28	137

The percentage of cases discharged to their homes from these wards is somewhat greater than last year.

Table giving average length of stay of all discharged cases:

	Males.	Females.
All discharged cases	236 days	339 days
Those discharged home	231 days	303 days
Those discharged to pavilion wards	254 days	371 days
Those discharged to other institutions	114 days	.....

The general increase in the length of stay of all discharged cases is very striking when the above figures are compared with those for previous years. This is particularly true in the case of both males and females who were discharged home.

Table giving condition of patients at time of discharge:

	Males.	Females.	Totals.
Arrested	3	1	4
Improved	57	9	66
Unimproved	49	18	67
Totals	109	28	137

Children's Ward.

A total of 98 infants and children were treated in these wards during the year, a number which is considerably smaller than for the previous year. The figures with

reference to the admission and discharge of patients in these wards are given in the following table:

	Males.	Females.	Totals.
Number of patients February 1, 1920	29	30	59
Number of patients admitted during the year	21	18	39
Number of patients discharged during the year	21	26	47
Number of patients remaining January 31, 1921	29	22	51

Table giving sources of all cases admitted:

	Males.	Females.	Totals.
Out-patient department	13	14	27
Pavilion wards (born in the hospital)	3	1	4
Other institutions	4	2	6
Private physicians	1	1	2
Totals	21	18	39

Table showing the diagnosis of all cases at entrance:

	Males.	Females.	Totals.
Stage I	10	12	22
Stage II	3	3	6
Stage III	4	3	7
Tuberculosis, nonpulmonary	1	.....	1
Nontuberculous	3	.....	3
Totals	21	18	39

Slightly less than half as many cases classified as Stage II. or III. were admitted during the year as for the year previous, while the number of those classified as Stage I. was slightly higher.

Table giving disposition of all discharged cases:

	Males.	Females.	Totals.
A. Dead	3	8	11
B. Home	16	14	30
C. Pavilion	.....	1	1
D. Other institutions	2	3	5
Totals	21	26	47

Table giving average length of stay of all discharged cases:

	Males.	Females.
A. All cases	496 days	420 days
B. Dead	120 days	109 days
C. Home	601 days	598 days
D. Other institutions	225 days	421 days

Table giving number of discharged cases other than the dead, with reference to the losses or gains in weight:

	Males.	Females.	Totals.
A. Gained	17	14	31
B. Lost	1	4	5
C. Unknown (dead)	3	8	11

Table showing condition of patients at time of discharge:

	Males.	Females.	Totals.
Arrested	5	10	15
Improved	9	6	15
Unimproved	4	2	6
Dead	3	8	11
Totals	21	26	47

B. OUT-PATIENT DEPARTMENT.

Day Clinic.

No changes in the staff of the out-patient department have occurred during the year, the remaining members of the staff preferring to take the extra months which have become available during the past year or two by resignations. Doctors Kent and Downing have continued to serve six months each as assistant directors of the clinic.

The asthma clinic, particularly referred to in last year's report, which has been under the direction of Doctor Cronin, has continued to show a gratifying development, the number of patients being considerably

in excess of that of last year. As previously the clinic is held each Wednesday and the usual attendance varies from twenty to thirty patients.

Dr. Clarence Gable, assisted by Miss Herrick, an expert technician, has organized a research laboratory and during the year has been carrying on a very important investigation. This beginning of a scientific laboratory in the out-patient department is a step of unusual importance.

Year after year attention has been called in this report to the urgent need of a new out-patient building.

The situation in this respect is now actually critical. Cramped and generally inadequate quarters and equipment make effective work entirely impossible. In a word, the conditions are utterly demoralizing to both the staff and patients. It has not infrequently happened during the past year that patients have refused to attend the clinic because of the deplorable conditions there.

The total number of patients treated during the year was 8,479, or 1,590 new patients and 6,889 old. Similar figures, together with those of the percentage of positive cases by years since the out-patient department was opened in 1907, are given in the following table:

YEAR.	Number New Cases.	Number Old Cases.	Totals.	Percentage Positive Cases (New).
September 11, 1907, to January 31, 1908.	1,122	912	2,034	32.79
February 1, 1908, to January 31, 1909...	2,433	7,098	9,531	31.69
February 1, 1909, to January 31, 1910...	2,656	8,074	10,730	42.36
February 1, 1910, to January 31, 1911...	2,462	4,915	7,377	33.75
February 1, 1911, to January 31, 1912...	2,033	6,471	8,504	36.94
February 1, 1912, to January 31, 1913...	1,971	6,735	8,706	49.87
February 1, 1913, to January 31, 1914...	2,455	7,980	10,435	44.28
February 1, 1914, to January 31, 1915...	2,227	7,971	10,198	44.90
February 1, 1915, to January 31, 1916...	2,679	8,707	11,386	39.42
February 1, 1916, to January 31, 1917...	2,247	7,823	10,070	39.03
February 1, 1917, to January 31, 1918...	2,288	7,541	9,829	35.00
February 1, 1918, to January 31, 1919...	2,125	6,860	8,985	32.80
February 1, 1919, to January 31, 1920...	1,971	5,689	7,660	37.03
February 1, 1920, to January 31, 1921...	1,590	6,889	8,479	33.84
Totals.....	30,259	93,665	123,924	

For some years there has been a general tendency indicated in this table to a smaller number of new and total cases. For the present year the total number of new cases is less than during any previous year. This fact cannot be accounted for by conditions arising out of the war as was previously suggested, but must be due to some other factors. This experience seems to lend weight to the explanation offered above under Section A, namely, that the active cases in the municipality are gradually being rounded up and that prophylaxis is having its effect in diminishing the number of new cases of infection. In line with this argument it will be noted that the percentage of positive cases is also smaller than for the majority of previous years. Doubtless other factors also play a part in causing this decline and there is no possibility of strictly evaluating them. There has certainly been no abatement of the organized effort to bring new cases to the dispensary. The moderate increase in the number of old cases seen during the year is undoubtedly due to the fact that a systematic campaign on the part of the nurses to bring all old cases to the clinic has been pushed vigorously.

The attendance of old and new cases by months is given in the following table:

	Old.	New.	Totals.
February, 1920	441	91	532
March, 1920	598	149	747
April, 1920	576	156	732
May, 1920	645	185	830
June, 1920	643	200	843
July, 1920	586	161	747
August, 1920	426	95	521
September, 1920	577	81	658
October, 1920	635	138	773
November, 1920	541	105	646
December, 1920	578	107	685
January, 1921	643	122	765
Totals	6,889	1,590	8,479

Diagnosis at entrance of all new cases, arranged according to sex and age:

	Adults.		Children.		Totals.
	Males.	Females.	Males.	Females.	
A. Tuberculosis	288	223	10	13	534
B. Suspected	60	73	11	23	167
C. Nontuberculous	181	164	285	246	876
D. Tuberculosis, nonpulmonary	1	.....	3	.....	4
E. Insufficient records	5	2	.....	2	9
Totals	535	462	309	284	1,590

Table giving the diagnosis in the case of all children admitted to the clinic during the past thirteen years.

	Positive.	Per Cent.	Deferred and Negative.	Totals.
February 1, 1908, to January 31, 1909	87	9.46	833	920
February 1, 1909, to January 31, 1910	246	21.87	879	1,125
February 1, 1910, to January 31, 1911	87	9.91	791	878
February 1, 1911, to January 31, 1912	131	14.57	761	892
February 1, 1912, to January 31, 1913	266	32.01	565	831
February 1, 1913, to January 31, 1914	160	20.69	617	777
February 1, 1914, to January 31, 1915	150	20.57	575	729
February 1, 1915, to January 31, 1916	70	7.63	840	917
February 1, 1916, to January 31, 1917	53	7.34	669	722
February 1, 1917, to January 31, 1918	58	6.43	844	902
February 1, 1918, to January 31, 1919	33	4.26	742	775
February 1, 1919, to January 31, 1920	40	5.19	731	771
February 1, 1920, to January 31, 1921	26	4.38	567	593

The most striking feature of this table is the considerable diminution in the number of positive cases as well as the total cases examined. It would certainly seem reasonable to suggest that this diminution is probably in large part the direct result of the increasing care which is given to the health of the children in the community.

Table showing the stage of the disease of all positive cases:

	Adults.		Children.		Totals.
	Males.	Females.	Males.	Females.	
Stage I	47	109	5	8	169
Stage II	136	71	5	4	216
Stage III	106	42	.....	1	149
Tuberculosis, nonpulmonary	1	.....	3	.....	4
Totals	290	222	13	13	538

Table showing disposition of all discharged cases:

	Males.	Females.	Totals.
Admitted to hospital	313	182	495
Discharged out of town	.....	.....	347
Patient refused to enter hospital	49	35	84
Still on waiting list, January 31, 1921	27	20	47
Lost track of	.....	.....	120
Dead	90	85	175
Totals	479	322	1,268

Evening Clinic.

For several years the total number of both old and new patients treated in this clinic has been slowly but steadily decreasing. It is interesting this year to note a quite material increase in the numbers. This increase is shown not only in the total attendance for the year but also in the number of new cases. Indeed, it is in the latter where the increase is most striking.

The totals for the year are 69 new cases and 517 old cases. Of the new patients 36 were men and 33 women.

Table showing the attendance by months of old and new cases:

	Old.	New.	Total.	Average Attendance.
February, 1920	29	6	35	11.6
March, 1920	82	11	93	16.4
April, 1920	38	1	39	9.7
May, 1920	48	10	58	14.5
June, 1920	58	3	61	15.2
July, 1920	24	3	27	9.0
August, 1920	44	9	53	10.6
September, 1920	32	2	34	11.3
October, 1920	45	6	51	12.7
November, 1920	38	5	43	8.6
December, 1920	36	7	43	10.7
January, 1921	43	6	49	9.8
Totals	517	69	586	

Table of diagnosis at entrance of all new cases:

	Adults.		Children.		Totals.
	Males.	Females.	Males.	Females.	
A. Tuberculosis	10	6	.....	.....	16
B. Suspected	8	7	.....	.....	15
C. Tuberculosis, nonpulmonary	1	.....	.....	.....	1
D. Nontuberculous	16	17	2	2	37
Totals	35	30	2	2	69

Although the number is small the tuberculous cases show an increase of 60 per cent over those of last year, and the suspected ones of 50 per cent.

Table giving the stage of disease at entrance of all positive cases:

	Adults.		Totals.
	Males.	Females.	
Stage I	2	2	4
Stage II	4	4	8
Stage III	4	.....	4
Tuberculosis, nonpulmonary	1	.....	1
Totals	11	6	17

C. RECOMMENDATIONS.

Of the five major recommendations made in last year's report only one has in part been carried out, namely, the establishment of a dental clinic at the hospital at Mattapan. The arguments there urged in support of these recommendations still hold with as great if not greater force than a year ago. I therefore respectfully urge that the Board of Trustees give serious consideration to the following recommendations:

1. That a new out-patient building fully equipped for our special work be provided for.
2. That a dental clinic be established at the out-patient department.
3. That a comprehensive survey be made of the entire work of the Boston Consumptives' Hospital to date.
4. That a nutrition clinic be maintained at the out-patient department.
5. That the Board of Trustees confer with the authorities of the Harvard Medical School as to the possibility of a combined effort to establish and maintain a department of research in tuberculosis.

Respectfully submitted,

EDWIN A LOCKE,
Chief of Staff.

REPORT OF THE SUPERINTENDENT.

To the Trustees of the Boston Consumptives' Hospital:

The report of the work for the year 1920 is herewith presented:

There were 8,479 patients treated at the day clinic of the out-patient department during the year. One thousand five hundred and ninety of these were new cases. Five hundred and eighty-six cases were treated at the night clinic, of which 69 were new cases.

On February 1, 1920, there were 377 patients in the wards in the hospital at Mattapan. There were admitted during the year 497 and 522 were discharged. The number of deaths during the year was 243.

In the children's ward, February 1, 1920 there were 59 children. There were admitted during the year 39; 47 were discharged, of whom 11 died.

The out-patient department shows an increase in the work over last year and the crowded condition referred to in previous reports is much more apparent and tends to show the very urgent need of a new out-patient building.

The occupational therapy, which was introduced into this hospital in 1919, has been carried on very successfully during the past year. It has not only proved a source of enjoyment but has furnished part-time employment for many of the patients who have been instructed in many kinds of work, including basket making, weaving, needlework and beadwork. The work of the patient in this department has been excellent.

Many entertainments were held during the year for the patients at the day camp building. These included moving pictures, concerts, minstrel shows, etc., and as in the past, the success of these affairs was due in great measure to the chaplain, the Rev. Francis A. Burke.

We are still compelled to lease a house outside the hospital grounds to accommodate a number of the employees. It is due to this condition and the fact that there is little chance for recreation, because of the lack of accommodations, that I again recommend the erection of a nurses' home.

The various officers and employees of the department have served very faithfully during the year and deserve commendation for the interest taken in the work.

Many charities have given their help and assistance and I wish to thank them and individuals who have sent donations throughout the year.

In closing I desire to express my appreciation to the Board of Trustees for their kind advice and constant support.

Respectfully submitted,

ARTHUR J. WHITE,
Superintendent.

REPORT OF THE SUPERINTENDENT OF NURSES TO THE OUT-PATIENT DEPARTMENT.

To ARTHUR J. WHITE, M. D., *Superintendent:*

The past year has shown very few changes in the character of the work done at the out-patient department. For the year ending January 31, 1921, 6,142 patients were carried by the nurses of the out-patient department. Of this number, 612 patients were "home" cases, a large majority of these being referred for hospital care or bedside nursing.

The number of visits made by the nurses for the year was 60,628; 6,532 of these visits were to patients of private physicians, investigation being made in many of these cases for the survey of the Boston Health Department. More than one visit is often required in these cases, in order to feel assured that proper precautions are really taken. Often patients refuse to believe they are a source of danger to others, and will take no precautions. With this class of patient the only remedy seems to be visiting often enough to know just what is going on in the family, trying to educate both the patient and family and keeping the whole family in constant touch with the clinic or private physician to avert a calamity.

Substitutes now allowed for sick nurses have helped very much. Three substitutes were employed and their work was most satisfactory.

By the appointment of two extra nursing maids it has been possible to transfer two nurses to the asthma clinic. There are still eight nurses in the clinic four mornings a week and one in the night clinic, leaving eight districts with nurses on them only about three and a half days a week. No nurse carries less than 150 patients. It would seem that at least five more nurses are needed for the work.

The number of days lost by the nurses was very large this year, but as substitutes were provided it did not mean there was so much less work done.

The hospital waiting list has been a very short one this last year. At the end of each month practically the only ones on the waiting list were the patients who

were put on the last clinic day of the month, with the exception of the list for beds in the children's ward. The number of children waiting is never very large, possibly four or five at the end of each month. Children are on the waiting list for weeks and sometimes months.

The asthma clinic has continued throughout the year with an average attendance of about thirty. Relief to these patients has been very pronounced. These patients are very faithful in their attendance and express their gratitude for the relief they get.

For the past few months the problem of "no work" has been met again, but by linking up with the different relief-giving agencies it has been possible to tide many of them over this period. The "homeless men" problem seems to have gone by.

In our program for the following year we will continue to emphasize the necessity of having all members of a family examined where there is a tubercular case, especially the children, for after all, though so much of our work must of necessity be with the tubercular person, isn't the education and constant supervision of the exposed person going to give us the best results?

This last year appeals to different charitable agencies and individuals have met with excellent results. The out-patient department is very much indebted to the American Invalid Aid of America, the Needlework Guild of America, the First Parish Church of Dorchester, the various St. Vincent dePaul Conferences, the Women's Christian Temperance Union, the Young Men's Christian Union, Fruit and Flower Mission, the Boston American Christmas Basket Fund, the Boston Evening Record Coal Fund, the Lend a Hand Society, Fragment Society, St. Cecilia's Guild and personal friends of Doctor Floyd and the nurses. The hearty co-operation of the Family Welfare Union, the Jewish Welfare Union and the Boston Provident Association has been given.

In closing I wish to thank the doctors for their many courtesies and nurses for their assistance and co-operation.

Respectfully submitted,

ZEPHA M. GARDNER,
Superintendent of Nurses,
Out-Patient Department.

FINANCIAL REPORT.

SCHEDULE 1.

Detail of Expenses.

TRUSTEES' OFFICE.

ADMINISTRATION EXPENSES.

Clerks	$1,225 79	
Stationery	61 76	
Postage	33 76	
Messenger and telegraph	17 25	
Printing	7 79	
Total office administration expenses		$1,346 35

HOSPITAL.

ADMINISTRATION EXPENSES.

Salaries, officers amd clerks	$13,521 21	
Printing	1,222 89	
Transportation	137 60	
Cartage	440 51	
Telephone	771 38	
Stationery	82 39	
Postage	161 87	
Office furniture	50 00	
Total hospital administration expenses		16,387 85
Grand total administration expenses		$17,734 20

PROFESSIONAL CARE OF PATIENTS.

Salaries and wages		$41,095 77	
Care of nurses		128 57	
Medical supplies		4,699 50	
Apparatus and instruments		652 65	
Laboratory:			
Salaries		1,026 38	
Disinfectants		203 79	
Religious services		2,402 14	
X-ray:			
Salaries	$1,538 86		
Supplies	1,255 66		
		2,794 52	
Music, concerts, etc.		284 62	
Occupational therapy:			
Salaries	$439 40		
Supplies	2,172 15		
		2,611 55	
Total professional care of patients			55,899 49
Carried forward			$73,633 69

Brought forward			$73 633 69

DEPARTMENT EXPENSES.

Housekeeping:			
Salaries	$15,138 22		
Supplies	11,446 80		
		$26,585 02	
Kitchen:			
Salaries	$3,940 49		
Bakery:			
Salaries	1,075 00		
		5,015 49	
Steward's department:			
Meat and fish	$21,404 17		
Milk	17,727 57		
Groceries	22,151 61		
Butter, cheese and eggs	15,073 02		
Crackers	1,117 00		
Fruits and vegetables	2,984 71		
		80,458 08	
Laundry:			
Salaries	$6,828 71		
Supplies	464 98		
		7,293 69	
Farm:			
Salaries	$4,322 64		
Supplies	8,385 99		
		12,708 63	
Ambulance and automobile:			
Salaries	$1,377 00		
Supplies	763 26		
		2,140 26	
Total department expenses			134,201 17

NOTE.—$11,619.66 farm cost was "food," but is not entered here in the steward's department.

GENERAL HOUSE AND PROPERTY EXPENSES.

Maintenance, machinery and tools:			
Salaries	$17,286 67		
Supplies	1,570 50		
		$18,857 17	
Maintenance, real estate		9,658 73	
Electric lighting and supplies		5,637 35	
Fuel		36,760 51	
Gas		1,289 49	
Ice		250 89	
Plumbing		11 40	
Oil and waste		407 90	
Water rates		13 00	
Rents		752 00	
Cleaning		672 00	
Carpenter, salaries		1,700 00	
Total general house and property expenses			76,010 44
Total operating expenses			$283,845 30

CAPITAL EXPENSES.

Electric meat chopper		$228 00	
Moving picture machine		456 75	
Carried forward		$684 75	$283,845 30

Brought forward	$684 75	$283,845 30
Hot water pressure boilers	634 00	
Dental equipment	1,000 00	
Return pipes in tunnel, pump room and farm cottage	629 00	
Galvanized-iron boilers and exhaust pipe	329 00	
Returns in tunnel	412 00	
Underground wiring	1,471 07	
Total capital expenses for Mattapan		5,159 82
Total capital and operating expenses		$289,005 12

OUT-PATIENT DEPARTMENT.

ADMINISTRATION EXPENSES.

Salaries, officers and clerks	$3,010 10	
Transportation	1,775 55	
Stationery	694 64	
Telephone	425 41	
Postage	179 63	
Messenger and telegraph	90 90	
Cartage	50	
Total administration expenses		$6,176 73

PROFESSIONAL CARE OF PATIENTS.

Salaries and wages	$49,282 30	
Medical supplies	1,639 16	
Apparatus and instruments	207 59	
Total professional care of patients		51,129 05

DEPARTMENT EXPENSES.

Housekeeping:			
Salaries	$1,649 00		
Supplies	394 35		
		$2,043 35	
Laundry:			
Salaries	$250 00		
Supplies	50 00		
		300 00	
Total department expenses			2,343 35

GENERAL HOUSE AND PROPERTY EXPENSES.

Rents	$2,096 00	
Gas	170 40	
Fuel	220 78	
Water rates	15 40	
Ice	39 86	
Maintenance, real estate	43 94	
Total general house and property expenses		2,586 38
Total operating expenses for out-patient department		$62,235 51

TOTALS.

Grand total capital expenses	$5,159 82
Grand total operating expenses	346,080 81
Grand total capital and operating expenses	$351,240 63

Total capital and operating expenses	$351,240 63
Deduct money paid to City Treasurer, Schedule III.	93,327 93
Net	$257,912 70

SCHEDULE II.

Summary of Expenditures.		Appropriation and Income.	
Administration expenses	$23,910 93	Appropriation	$371,899 04
Professional care of patients	107,028 54		
Department expenses	136,544 52		
General house and property expenses	78,596 82		
Total operating expenses	$346,080 81		
Mattapan capital expenses	5,159 82		
Balance unexpended	20,658 41		
Total	$371,899 04	Total	$371,899 04

SCHEDULE III.

General Revenue, 1919–1920.

Board of patients:	
Commonwealth of Massachusetts, subsidy*	$65,498 44
State Board of Charity	24,542 41
Birth returns	6 00
Board of Health, Brockton, Mass.	26 50
Treasury Department, United States Public Service	63 00
Board of Health, Cambridge, Mass.	37 50
Board of Health, Lowell, Mass.	159 00
Board of Health, Somerville, Mass.	651 00
Board of Health, Saugus, Mass.	444 75
Board of Health, Quincy, Mass.	216 00
Board of Health, Gloucester, Mass.	46 50
Board of Health, Woburn, Mass.	46 50
Board of Health, Newton, Mass.	70 50
Patients' board	97 50
Bones and grease	127 28
Commission on telephone, Milton 21795	13 17
Sale of pigs	495 00
Rent of barn	15 00
Sale of medicines	382 05
Refund on salaries	18 00
Sale of junk and paper	67 65
Sale of occupational therapy articles*	253 98
Total	$93,327 93

* Acts of 1912, chapter 637.

NOTE.—The above sum was paid into the city treasury and is not credited to the hospital.

SCHEDULE IV.

Income Susan H. Leeds bequest	$1,085 70
Spent	27 32
Balance †	$1,058 38

TABLES SHOWING COST PER PATIENT PER DAY IN THE SEVERAL DEPARTMENTS.

HOSPITAL AT MATTAPAN.

Pavilion wards:		
General operating expenses	$221,989 68	
Proportion of administration expenses	10,881 53	
		$232,871 21
Cottage wards:		
General operating expenses	$45,467 77	
Proportion of administration expenses	2,228 75	
		47,696 52
Total		$280,567 73
Total patient days		125,277
Average cost per patient per day		$2.24

TABLE SHOWING COST OF PROVISIONS PER PERSON PER DAY.

Total cost of provisions at Mattapan *	$92,077 74
Total patient and officer days	172,878
Cost of raw food per person per day	$0 53

OUT-PATIENT DEPARTMENT.

Clinical Patients.

General operating expenses	$12,447 10
Proportion of administration expenses	655 51
Total operating expenses	$12,902 61
Total patients' visits	9,065
Cost per patient visit	$1 43

Home Visiting and Nursing.

General operating expenses	$49,788 41
Proportion of administration expenses	2,622 06
Total operating expenses	$52,410 47
Total home visits	60,310
Cost per visit	$0 87

* $11,619.66 of farm cost is included here as food cost.
† Balance carried to next year.

FINANCIAL REPORT ARRANGED ACCORDING TO BUDGET ITEMS.

GROUP AND ITEM.	Original Appropriation.	Transfers to.	Transfers from.	Total Net Appropriation.	Total Expenditures.	Balance Unexpended.	1919–20 Total Expenditures.
A PERSONAL SERVICE.							
1. Permanent employees	$176,804 33	$880 84	$9,113 23	$168,571 94	$164,514 12	$14,057 82	$140,346 27
2. Temporary employees	1,800 00	.....	.....	1,800 00	1,602 39	197 61	1,226 54
3. Unassigned	582 01	.....	.....	582 01	360 84	221 17	189 00
B SERVICE OTHER THAN PERSONAL.							
1. Printing and binding	7 00	.....	.....	7 00	.....	7 00	4 50
2. Postage	275 00	.....	.....	275 00	209 76	65 24	251 28
3. Advertising and posting	.....	6 00	.....	6 00	5 80	20	
4. Transportation of persons	2,600 00	.....	300 00	2,300 00	1,913 15	386 85	1,931 45
5. Cartage and freight	500 00	.....	.....	500 00	441 80	58 20	476 39
6. Hire of teams and auto trucks	.....	288 00	.....	288 00	288 00		
8. Light and power	4,350 00	852 10	.....	5,202 10	5,132 10	70 00	4,293 35
10. Rent, taxes and water	3,025 00	.....	.....	3,025 00	2,876 40	148 60	3,301 20
13. Communication	1,200 00	104 94	.....	1,304 94	1,304 94	.....	1,199 18
14. Motor vehicle repairs and care	200 00	.....	.....	200 00	195 04	4 96	150 33
15. Motorless vehicle repairs	200 00	.....	.....	200 00	183 28	16 72	176 98
17. Care of persons	400 00	.....	.....	400 00	378 57	21 43	300 00
18. Cleaning	672 00	.....	.....	672 00	672 00	.....	3,193 45
22. Medical	.....	.....	.....	.....	.....	.....	5 00
23. Veterinary	40 00	.....	.....	40 00	40 00	.....	34 00
24. Blacksmith	25 00	.....	.....	25 00	25 00	.....	9 75
Carried forward	$192,680 34	$2,131 88	$9,413 23	$185,398 99	$180,143 19	$5,255 80	$157,088 67

FINANCIAL REPORT ARRANGED ACCORDING TO BUDGET ITEMS.— *Concluded.*

GROUP AND ITEM.	Original Appropriation.	Transfers to.	Transfers from.	Total Net Appropriation.	Total Expenditures.	Balance Unexpended.	1919–20 Total Expenditures.
Brought forward	$192,680 34	$2,131 88	9,413 23	$185,398 99	$180,143 19	$5,255 80	$157,088 67
28. Expert and architect	.....	1,000 00	.....	1,000 00	418 77	581 23	65 00
31. Extermination of insects	300 00	.....	.....	300 00	300 00	.....	294 00
35. Fees, service of venires, etc	20 00	.....	.....	20 00	14 50	5 50	5 00
36. Boiler inspection	15 00	.....	.....	15 00	15 00	.....	10 00
39. General plant	23,500 00	.....	4,137 93	19,362 07	9,850 69	9,511 38	4,170 55
40. Harness, etc., repairs	35 00	.....	.....	35 00	34 75	25	34 95
41. Horsehoeing and clipping	120 00	.....	.....	120 00	120 00	.....	102 50
42. Music, concerts, etc	200 00	150 00	.....	350 00	349 02	98	150 00
C. EQUIPMENT.							
2. Machinery	250 00	.....	.....	250 00	222 99	27 01	
3. Electrical	500 00	.....	.....	500 00	500 00		
4. Motor vehicle	3,200 00	.....	.....	3,200 00	148 47	3,051 53	249 78
5. Motorless vehicles	25 00	.....	.....	25 00	22 90	2 10	25 00
6. Stable	51 00	.....	.....	51 00	32 08	18 92	15 00
7. Furniture and fittings	6,500 00	.....	.....	6,500 00	6,231 77	268 23	3,241 50
8. Educational and recreational	300 00	483 00	.....	783 00	752 40	30 60	49 71
9. Office	50 00	.....	.....	50 00	50 00	.....	99 00
10. Library	50 00	.....	.....	50 00	46 92	3 08	98 20
12. Medical, surgical, laboratory	1,200 00	1,000 00	350 00	1,850 00	1,784 99	65 01	681 48
13. Tools and instruments	400 00	60 68	.....	460 68	460 05	63	327 45
14. Live stock	200 00	485 67	.....	685 67	657 12	28 55	199 40
16. Wearing apparel	1,200 00	.....	.....	1,200 00	1,183 95	16 05	1,171 01
17. General plant	.....	.....	.....	.....	.....	.....	1,897 00

D. SUPPLIES.							
1. Office	2,300 00			2,300 00	2,216 87	83 13	**2,032 48**
2. Food and ice	76,000 00	4,487 93		80,487 93	80,487 93		**76,226 83**
3. Fuel	24,782 00	* 13,650 00		38,432 00	38,368 30	63 70	**21,853 63**
4. Forage and animal	6,000 00	395 52		6,395 52	6,395 52		**5,259 82**
5. Medical, surgical, laboratory	6,700 00	978 04		7,678 04	7,660 30	17 74	**7,392 25**
6. Library	15 00			15 00	12 00	3 00	**2 00**
8. Laundry, cleaning, toilet	2,900 00			2,900 00	2,817 59	82 41	**2,097 90**
9. Educational and recreational	75 00			75 00	53 57	21 43	**50 00**
10. Agricultural	635 00			635 00	528 55	106 45	**608 69**
11. Motor vehicle	310 00			310 00	303 95	6 05	**321 06**
13. Chemicals and disinfectants	300 00	133 18		433 18	433 18		**538 25**
16. General plant	950 00	208 86		1,158 86	1,158 65	21	**1,113 77**
E. MATERIALS.							
1. Building	2,500 00	174 11		2,674 11	2,663 84	10 27	**1,872 42**
9. Machinery	800 00	212 29		1,012 29	1,012 29		**472 66**
10. Electrical	450 00			450 00	425 91	24 09	**506 81**
13. General plant	1,200 00			1,200 00	915 79	284 21	**581 26**
F. SPECIAL ITEMS:							
11. Workingmen's compensation							**186 60**
13. Industries	2,000 00			2,000 00	1,996 83	3 17	
G. INCIDENTAL EXPENDITURES TO COVER CONTINGENCIES OTHER THEN PERSONAL SERVICES.							
2. Special investigations	450 00	† 1,085 70		1,535 70	477 32	‡ 1,058 38	**664 01**
Totals	$359,163 34	$26,636 86	$13,901 16	$371,899 04	$351,267 95	$20,631 09	**$291,755 64**

* $13,650 additional appropriation. † $1,085.70 income from Leeds legacy, of which $27.32 was spent.
‡ $1,058.38 is the balance for Leeds legacy and has been carried to next year's account as G–3, Leeds legacy.

CITY OF BOSTON.

CONSUMPTIVES' HOSPITAL DEPARTMENT.

Trustees' Office, 1001 City Hall Annex.

BOARD OF TRUSTEES.

DR. JOHN F. O'BRIEN, *Chairman*, term expires April 30, 1923.
DR. JAMES J. MINOT, *Secretary*, term expires April 30, 1925.
ISABEL F. HYAMS, term expires April 30, 1924.
PATRICK A. KEARNS, term expires April 30, 1921.
JOHN J. BARRY, term expires April 30, 1922.
PETER J. DONAGHUE, term expires April 30, 1923.
SUSAN C. LYMAN, term expires April 30, 1925.

HOSPITAL, RIVER STREET, MATTAPAN.

Superintendent.
ARTHUR J. WHITE, M. D.

VISITING MEDICAL STAFF.

Chief of Staff.
EDWIN A. LOCKE, M. D.

First Assistant.
TIMOTHY J. MURPHY, M. D.

Pathologist.
WILLIAM T. COUNCILMAN, M. D.

Surgical Assistant.
ALBERT EHRENFRIED, M. D.

Ophthalmological Assistant.
SAMUEL J. MCDONALD, M. D.

Laryngological Assistants.
CHARLES E. SHAY, M. D.
SAMUEL CLINE, M. D.

Roentgenologist.
F. W. O'BRIEN, M. D.

Consulting Physician.
JOHN LOVETT MORSE, M. D.

Assistant Physician for Diseases of Children.
ELI FRIEDMAN, M. D.

Visiting Dental Surgeon,
FREDERICK A. KEYES, D. M. D.

RESIDENT MEDICAL STAFF.

Resident Medical Officer.
FRANK H. HUNT, M. D.

Assistant Resident Medical Officers.
Served in 1920–21. [Four Positions.]

NEWTON C. BROWDER, M. D.
HAROLD A. BULGER, M. D.
ALFRED J. STEINBERG, M. D.
NATHAN A. BOLOTOW, M. D.
ERNEST A. MANDERVILLE, M. D.
GEORGE L. FULLER, M. D.
HENRY S. JOYCE, M. D.
C. KING, M. D.
GEORGE G. KOROLICK, M. D.
RUSSELL WOOD, M. D.
FRANCIS B. SARGENT, M. D.

Resident Pathologist.
——— ———, M. D.

Laboratory Assistant.
EDNA M. CHILDS, M. D.

Superintendent of Nurses.
MARGARET J. CHISHOLM.

Director of Occupational Therapy.
DOROTHY S. EMMONS.

Assistant Director of Occupational Therapy.
KATHARINE L. ALDEN.

OUT-PATIENT DEPARTMENT,
13 Dillaway Street, Boston.

Second Assistant Physician, Director of Out-Patient Clinic.
CLEAVELAND FLOYD, M. D.

Third Assistant Physicians.
BRADFORD KENT, M. D.
ANDREW F. DOWNING, M. D.

Assistant Physicians.
HENRY I. BOWDITCH, M. D.
WILLISTON W. BARKER, M. D.
MICHAEL J. CRONIN, M. D.
HORACE K. BOUTWELL, M. D.
RICHARD H. HOUGHTON, M. D.
JOSEPH B. LYONS, M. D.
FRANCIS P. SILVA, M. D.
ELMOND A. BURNHAM, M. D.
CHARLES A. RILEY, M. D.

Laryngological Assistants.
CHARLES E. SHAY, M. D.
SAMUEL CLINE, M. D.

Bacteriologist.
WALTER W. FRAY.

Superintendent of Nurses.
ZEPHA M. GARDNER.

CONSUMPTIVES' HOSPITAL DEPARTMENT.

HOSPITAL.

The hospital is on River street, Mattapan district.

Electric cars from Forest Hills, Mattapan square or Milton car barns pass through River street.

For admission of patients to the hospital apply to the Superintendent at Mattapan or to the Superintendent of Nurses at the Out-Patient Department.

Patients may be visited by their family or friends after ten a. m.

Patients on the dangerous list may have visitors at any time during the day or night.

Visitors must enter the hospital through the Administration Building and obtain a pass at each visit.

OUT-PATIENT DEPARTMENT.

The Out-Patient Department is at 13 Dillaway street, Boston.

The Out-Patient Department is open from nine to eleven a. m. on Mondays, Wednesdays, Fridays and Saturdays, and from seven to nine p. m. on Mondays.

The evening clinic is only for those who cannot come in the daytime.

CITY OF BOSTON
PRINTING DEPARTMENT